EPA REGION 2

CONGRESSIONAL DIST. 01

Humacao County Rio Abajo

Other Names:

Ciudad Cristiana

FRONTERA CREEK **PUERTO RICO**



Site Description -

EPA ID# PRD980640965

The 100-acre Frontera Creek site consists of areas that lie east of the town of Junquito and extend to the creeks that enter into the Caribbean Sea, industrial properties adjacent to Frontera Creek, North and South Frontera Lagoons, and the Ciudad Cristiana Housing Development. From 1971 until 1981, various nearby industrial properties discharged industrial waste directly into Frontera Creek. The public became concerned about the creek's possible contamination in 1977, following the death of thirty cows that had grazed in the affected area. Subsequent investigations by the EPA and several local industries confirmed that contaminants, including mercury and the pesticide lindane, were present in the creek. Several industries were identified as contributing to site contamination. The Puerto Rico Environmental Quality Board (PREOB) fined one of them, Technicon, for discharging mercury into the creek in 1978. The 500 residents of the housing development of Ciudad Cristiana, which was built along the creek in 1979, began to complain of health problems within a year after their arrival. Blood and urine samples of the residents, obtained by the Puerto Rico Department of Health (PRDH), showed above-normal concentrations of mercury. In addition, investigations conducted by the PREQB found that soil in and near the development was contaminated with mercury. As a result, the Governor of Puerto Rico ordered an immediate permanent evacuation of the 500 residents of Ciudad Cristiana. Studies conducted by the EPA and the Agency for Toxic Substances and Disease Registry (ATSDR) concluded that the mercury levels were not high enough to warrant an immediate evacuation of the residents. However, the EPA proceeded with a full investigation of the Frontera Creek site because of the known contamination. Local residents used the lagoons for fishing and recreation; the fish and the shellfish caught there were important components of the local diet.

Site Responsibility: This site is being addressed through

Federal and potentially responsible

parties' actions.

NPL LISTING HISTORY

Proposed Date: 12/01/82 Final Date: 09/01/83 Notice of Deletion Date 12/29/98

Threats and Contaminants

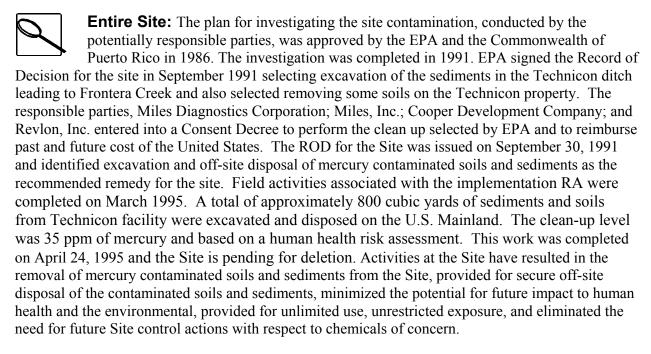


Mercury in the sediments in the Technicon ditch and the soils on the Technicon property may present a risk to workers or others that come in contact with the soils.

Cleanup Approach

This site is being addressed in a single long-term remedial phase focusing on cleanup of the entire site.

Response Action Status –



Site Facts: An Administrative Order on Consent was signed by the potentially responsible parties in 1986, requiring them to perform an investigation of site contamination. The Consent Decree for the remedial action was signed by the responsible parties in May 1992 and entered in Federal District Court on October 8, 1993. The Remedial Design Work Plan was approved by EPA on August 3, 1993. Field Activities associated with the remedial design were completed in October 1993. The Remedial Design Report was completed on September 28, 1994. A Remedial Action Work Plan was approved by EPA on December 27, 1994. Field activities associated with the implementation Remedial Action was completed in March 1995. Clean-up level was 35 ppm of Mercury and based on a human health risk assessment. The clean-up activities were completed in 3rd Q 1995. This site meets all the site completion requirements as contained in "Close Out Procedures for National"

Priorities List Sites" (OSWER Directive 9320.2-09). Confirmatory sampling verified that the site has achieved the ROD cleanup objective, that all mercury has been removed to levels below 35 mg/kg, and that all cleanup actions specified in the ROD have been implemented. Federal Superfund cleanup activities have been completed at the site and pest-cleanup monitoring shows that the threat to human health and the environment has been eliminated. On December 29, 1998 the Site was deleted from the NPL. The public comment period began on July 30, 1998 and was extended for 30 days. EPA held a public availability session on the proposal to delete the Site from the NPL on August 20, 1998 at the Humacao Town Hall. EPA received two letters offering comments. EPA responded to the letters and no further action is required. The Notice of deletion from the Site from the National Priorities List was published on December 29, 1998.

Environmental Progress



On April 6, 1999, EPA issued a Bill For Collection for oversight costs incurred by EPA seeking reimbursement from Revlon in the amount of \$685,268.02. Revlon will make a payment in the amount of \$246,243.37. The remaining amount of \$439,024.65 will be placed in escrow pending resolution of Revlon claims. Revlon requested costs' backup documentation and to extend the time for negotiations until a reasonable period of time after Revlon has received the requested documentation. RPM & ORC are working in the cost recovery actions.

Since the remedial action has been completed, EPA does not anticipate taking any further Superfund action at this Site and initiated the deletion activities.

3 August 2002 FRONTERA CREEK